

SEQUENCE LISTINGS

(1) General Information

(iii) NUMBER OF SEQUENCES: 4

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS

- (A) LENGTH: 593 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Met Leu Glu Arg Leu Lys Ile Tyr Glu Glu Ala Trp Thr Lys Tyr Pro
1 5 10 15

Arg Gly Leu Val Pro Arg Lys Leu Pro Leu Asn Phe Leu Ser Gly Glu
20 25 30

Lys Phe Lys Glu Cys Leu Asp Arg Phe Leu Arg Met Asn Phe Ser Lys
35 40 45

Gly Cys Pro Pro Val Phe Asn Thr Leu Arg Ser Leu Tyr Arg Asp Lys
50 55 60

Glu Lys Val Ala Ile Val Glu Glu Leu Val Val Gly Tyr Glu Thr Ser
65 70 75 80

Leu Lys Ser Cys Arg Leu Phe Asn Pro Asn Asp Asp Gly Lys Glu Glu
85 90 95

Pro Pro Thr Thr Leu Leu Trp Val Gln Tyr Tyr Leu Ala Gln His Tyr
100 105 110

Asp Lys Ile Gly Gln Pro Ser Ile Ala Leu Glu Tyr Ile Asn Thr Ala
115 120 125

Ile Glu Ser Thr Pro Thr Leu Ile Glu Leu Phe Leu Val Lys Ala Lys
130 135 140

Ile Tyr Lys His Ala Gly Asn Ile Lys Glu Ala Ala Arg Trp Met Asp
145 150 155 160

Glu Ala Gln Ala Leu Asp Thr Ala Asp Arg Phe Ile Asn Ser Lys Cys
165 170 175

Ala Lys Tyr Met Leu Lys Ala Asn Leu Ile Lys Glu Ala Glu Glu Met
180 185 190

Cys Ser Lys Phe Thr Arg Glu Gly Thr Ser Ala Val Glu Asn Leu Asn
195 200 205

Glu Met Gln Cys Met Trp Phe Gln Thr Glu Cys Ala Gln Ala Tyr Lys
 210 215 220

Ala Met Asn Lys Phe Gly Glu Ala Leu Lys Lys Cys His Glu Ile Glu
 225 230 235 240

Arg His Phe Ile Glu Ile Thr Asp Asp Gln Phe Asp Phe His Thr Tyr
 245 250 255

Cys Met Arg Lys Ile Thr Leu Arg Ser Tyr Val Asp Leu Leu Lys Leu
 260 265 270

Glu Asp Val Leu Arg Gln His Pro Phe Tyr Phe Lys Ala Ala Arg Ile
 275 280 285

Ala Ile Glu Ile Tyr Leu Lys Leu His Asp Asn Pro Leu Thr Asp Glu
 290 295 300

Asn Lys Glu His Glu Ala Asp Thr Ala Asn Met Ser Asp Lys Glu Leu
 305 310 315 320

Lys Lys Leu Arg Asn Lys Gln Arg Arg Ala Gln Lys Lys Ala Gln Ile
 325 330 335

Glu Glu Glu Lys Lys Asn Ala Glu Lys Glu Lys Pro Gln Arg Asn Pro
 340 345 350

Lys Lys Lys Lys Asp Asp Asp Glu Glu Ile Gly Gly Pro Lys Glu
 355 360 365

Glu Leu Ile Pro Glu Lys Leu Ala Lys Val Glu Thr Pro Leu Glu Glu
 370 375 380

Ala Ile Lys Phe Leu Thr Pro Leu Lys Asn Leu Val Lys Asn Lys Ile
 385 390 395 400

Glu Thr His Leu Phe Ala Phe Glu Ile Tyr Phe Arg Lys Glu Lys Phe
 405 410 415

Leu Leu Met Leu Gln Ser Val Lys Arg Ala Phe Ala Ile Asp Ser Ser
 420 425 430

His Pro Trp Leu His Glu Cys Met Ile Arg Leu Phe His Ser Val Cys
 435 440 445

Glu Ser Lys Asp Leu Pro Glu Thr Val Arg Thr Val Leu Lys Gln Glu
 450 455 460

Met Asn Arg Leu Phe Gly Ala Thr Asn Pro Lys Asn Phe Asn Glu Thr
 465 470 475 480

Phe Leu Lys Arg Asn Ser Asp Ser Leu Pro His Arg Leu Ser Ala Ala
 485 490 495

Lys Met Val Tyr Tyr Leu Asp Ser Ser Ser Gln Lys Arg Ala Ile Glu
 500 505 510

Leu Ala Thr Thr Leu Asp Gly Ser Leu Thr Asn Arg Asn Leu Gln Thr

515 520 525

Cys Met Glu Val Leu Glu Ala Leu Cys Asp Gly Ser Leu Arg Asp Cys
 530 535 540

Lys Glu Ala Ala Glu Ala Tyr Arg Ala Ser Cys His Lys Leu Phe Pro
 545 550 555 560

Tyr Ala Leu Ala Phe Met Pro Pro Gly Tyr Glu Glu Asp Met Lys Ile
 565 570 575

Thr Val Asn Gly Asp Ser Ser Ala Glu Thr Glu Glu Leu Ala Asn Glu
 580 585 590

Ile

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS

- (A) LENGTH: 3418 base pairs
- (B) TYPE: cDNA
- (C) STRANDEDNESS: both
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

CAAGTAACAC CCGCAAGATG ATAGAGGATC TGCAGAGTGA GCATCATGGA TTGGTTATGC	60
TTTACCATTT ATTAGAACAG TATGAAATGG CAGCAAAAT TTTAGAACAG TTTAGGAAA	120
CACAGCAGAC ATCTCCTGAT AAAGTGGATT ATGAATATAG TGAACTCCCT TTATATCAGA	180
ATCAAGTTCT TCGGGAAAGCA GGTCTTATA GAGAACGCCCT GGAACATCTT TGTACCTATG	240
AAAAGCAGAT TTGTGATAAA CTTGCTGTTG AAGAAACCAA AGGGGAACCTT CTGTTGCAGT	300
TGTGTCGTTT GGAAGATGCT GCTGACGTTT ATAGAGGATT ACAAGAGAGG AATCCTGAAA	360
ATTGGGCCTA TTACAAAGGC TTAGAAAAAG CACTGAAGCC AGCTAATATG TTAGAACGGC	420
TAAAAATATA TGAGGAAGCC TGGACTAAAT ACCCCAGGGG ACTCGTGCCA AGAAAGCTGC	480
CCTTAAACTT TTTATCTGGA GAGAAGTTA AGGAGTGTGTT GGATAGGTTG CTAAGGATGA	540
ATTTCAGCAA GGGCTGTCCA CCTGTCTTCA ATACCTTGAG GTCTTATAC AGAGATAAAG	600
AGAAGGTGGC AATCGTAGAA GAACTAGTAG TTGGTTATGA AACTTCTCTA AAAAGTTGTC	660
GCCTATTTAA CCCCAATGAT GATGGAAAGG AGGAACCTCC AACCAACATTA CTTTGGGTCC	720
AGTACTATTT GGCACAGCAT TATGATAAAA TTGGTCAGCC ATCCATTGCT CTGGAATACA	780
TAAATACTGC AATTGAAAGT ACACCAACAT TGATAGAACT CTTTCTTGTAA AAAGCTAAAA	840

TCTATAAGCA	TGCTGGGAAT	ATTAAGAAG	CTGCCAGGTG	GATGGATGAA	GCCCAGGCC	900
TGGACACAGC	AGACAGATT	ATTAATTCCA	AGTGTGCAA	ATACATGTTA	AAAGCCAACC	960
TGATTAAGA	GGCTGAAGAA	ATGTGTTCCA	AGTTTACGAG	GGAAGGAACT	TCAGCGGTAG	1020
AGAACCTGAA	TGAAATGCAG	TGTATGTGGT	TCCAGACAGA	GTGTGCTAG	GCATACAAAG	1080
CAATGAACAA	ATTTGGTGAA	GCACTTAAGA	AATGTCATGA	AATTGAGAGA	CATTTTATAG	1140
AAATCACCGA	TGACCACTTT	GACTTCATA	CATACTGTAT	GAGGAAGATC	ACCCCTTAGAT	1200
CATATGTGGA	CTTATTAAAA	CTAGAAGATG	TACTTCGACA	GCATCCATT	TACTTCAAAG	1260
CAGCGAGAAT	TGCTATTGAG	ATCTATTGA	AGCTTCATGA	CAACCCCTCTG	ACAGATGAGA	1320
ACAAAGAAC	CGAGGCTGAT	ACAGCAAACA	TGTCTGACAA	AGAGCTAAAG	AAACTGCGTA	1380
ATAAACAAAG	AAGAGCTCAA	AAGAAAGCCC	AGATTGAAGA	AGAGAAAAAA	AATGCCAAA	1440
AAGAAAAGCC	GCAACGGAAT	CCGAAAAAGA	AAAAGGATGA	TGATGACGAA	GAAATTGGAG	1500
GCCCCAAAGA	AGAGCTTATC	CCTGAGAAC	TGGCCAAGGT	TGAAACTCCA	TTGGAAGAAG	1560
CTATTAAGTT	TTTAACACCA	TTGAAGAACT	TGGTGAAGAA	CAAGATAGAA	ACTCATCTT	1620
TTGCCTTGA	GATCTACTTT	AGGAAAGAAA	AGTTTCTTTT	GATGCTACAA	TCAGTAAAGC	1680
GGGCATTTGC	TATTGATTCT	AGTCATCCCT	GGCTTCATGA	GTGCATGATT	CGACTCTTC	1740
ATTCTGTGTG	TGAAAGTAAA	GACTTACCCG	AAACAGTTAG	AACAGTATTA	AAACAAGAAA	1800
TGAATCGTCT	TTTGAGGAGCA	ACAAATCCAA	AGAATTAA	TGAAACCTTT	CTGAAAAGGA	1860
ATTCTGATTC	ATTGCCACAT	AGATTATCAG	CTGCCAAAAT	GGTATATTAT	TTAGATTCTT	1920
CTAGTCAAA	ACGAGCAATA	GAGCTGGCGA	CAACACTTGA	TGGATCCCTC	ACCAACAGAA	1980
ACCTTCAGAC	TTGCATGGAA	GTGTTGGAAG	CCTTGTGTGA	TGGTAGCCTA	CGAGACTGTA	2040
AAGAAGCTGC	CGAACCTAC	AGAGCAAGTT	GTCATAAGCT	TTTCCCTTAT	GCTTTGGCTT	2100
TCATGCCTCC	TGGATACGAA	GAGGATATGA	AGATCACAGT	GAACGGAGAT	AGTTCTGCAG	2160
AAACGGAAGA	ACTGGCCAAT	GAATCTGAA	CATCATTAAA	CAAGCAAATG	GAATGACTTT	2220
GGACCATATC	TAGTGTATAA	TATTTTGTC	ACGCACCTGC	TGCATTGCTC	TTACTTACAC	2280
AGAATGAGAG	GAGTAAATGT	TCTTGCCTTC	AAATAGTCTT	ACGTTTTTA	TCCTGCTGAA	2340
AACTATATAT	AAAATATCTA	ACATTACAGG	ATATAGGTT	AGTTTCTAA	AAAATTAAAA	2400
GCTGCTAAAA	TTGAGGGGTT	AAAAAGAAAA	AAAATCCGT	ATCCTATTCC	TACCTTCCCT	2460
TCCCCATGTTT	TTAACTAATT	TATATAAAAT	CTGGAGGCTA	TAACAGCTAA	CATAGCAGGT	2520
GTGTGGCAGA	AATATTACTT	TAAATTTGTC	TTGTGAGATT	TTGCTATATC	TCAGACAGCA	2580
TAAATAAAATG	CTGTTTTAGC	ACTGGATTCT	TTCACTGAGC	ACAAAGAGTT	GTTGGGGCTT	2640
TAGCATCTGC	CTGATTCTGT	TACGGGGTTG	GTGATTGACC	ATAGGAAGTA	TGCAATGTGA	2700
ATCACTGTGT	ACAGAGCCGT	CTACAACACA	TGCTTGACGT	TGTAGAGACT	GGGACACATA	2760
GCTACCAAGC	GGATTAAGTG	AAACCTAGAA	GGTGTTCAGT	ACGTGTGTTG	TGTTTCCAAA	2820

ATTCACTGTA CATGATCAGT TTGGTGTCT TGTACCACAG TTTTAACCG AAGGAACCAG	2880
TTGGAACAAT CTCAATTAA CTAAAACCTG AAGAACTAAA ATAACAATGC AAACCTTTAT	2940
CATTGTTTG GCCAAACCTG TTAAAACGT AATGCAAGAA CCAAATGCAC TGTGATGTGG	3000
CACCAACTAA TTATGCAAGC ATGAATTTT CACCTGAGAG TGAAAAAAGA AAACCTCTACC	3060
ATGGCTTGAA GTTACAGGAG CAGAACTCCT GACTACCATT CTATGACTGA TGAAGAGACT	3120
AATATCTAAA ACCTCAGCAG GCCTGTTCA CGATATGCAG AAAAAGTGCT GCAGTTAGA	3180
TACCTCTGGG AACCTTTCCA CAGTGTACCA GGTTGTAAT ACTTGAAGCC CTTCATTCT	3240
AAGAATATAT TTCTCGCTCA GTTGTTCAG GCAAGCCAA GACTTTGAA TTTTAAAGG	3300
GCCCAAGATT TTTTTTCAA TAACAGACCA GCTTCTTTT CCTGCAGTTA CAAATGTAAT	3360
TTCTTTTTT TTTTGTGTC AACATAAGG TACCAAATAT GCAATAAATT GTTTGGG	3418

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(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS
 - (A) LENGTH: 1413 base pairs
 - (B) TYPE: cDNA
 - (C) STRANDEDNESS: both
 - (D) TOPOLOGY: Linear

- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: No
- (iv) ANTISENSE: Yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TCTGGGCTTT CTTTGAGCT CTTCTTGTT TATTACGCAG TTTCTTAGC TCCTTGTAG	60
ACATGTTTGC TGTATCAGCC TCGTGTCTT TGTTCTCATC TGTCAGAGGG TTGTCATGAA	120
GCTTCAAATA GATCTCAATA GCAATTCTCG CTGCTTGAA GTAAAATGGA TGCTGTCGAA	180
GTACATCTTC TAGTTTAAT AAGTCCACAT ATGATCTAAC GGTGATCTTC CTCATACAGT	240
ATGTATGAAA GTCAAACCTGG TCATCGGTGA TTTCTATAAA ATGTCTCTCA ATTTCATGAC	300
ATTTCTTAAG TGCTTCACCA AATTGTTCA TTGCTTGTA TGCTGAGCA CACTCTGTCT	360
GGAACCACAT ACACTGCATT TCATTTCAGGT TCTCTACCGC TGAAGTTCCT TCCCTCGTAA	420
ACTTGGAAACA CATTCTTCA GCCTCTTAA TCAGGTTGGC TTTAACATG TATTTGCAC	480
ACTTGGAAATT AATAAAATCTG TCTGCTGTGT CCAGGGCCTG GGCTTCATCC ATCCACCTGG	540
CAGCTTCTTT AATATTCCCA GCATGCTTAT AGATTTAGC TTTTACAAGA AAGAGTTCTA	600
TCAATGTTGG TGTACTTTCA ATTGCAGTAT TTATGTATTG CAGAGCAATG GATGGCTGAC	660
CAATTCTTATC ATAATGCTGT GCCAAATAGT ACTGGACCCA AAGTAATGTG GTTGGAGGTT	720

CCTCCTTCC ATCATCATTG GGGTTAAATA GGCGACAAC TTTTAGAGAA GTTCATAAC	780
CAACTACTAG TTCTTCTACG ATTGCCACCT TCTCTTATC TCTGTATAAA GACCTCAAGG	840
TATTGAAGAC AGGTGGACAG CCCTTGCTGA AATTCATCCT TAGAACCTA TCCAAACACT	900
CCTTAAACTT CTCTCCAGAT AAAAAGTTA AGGGCAGCTT TCTTGGCACG AGTCCCCTGG	960
GGTATTTAGT CCAGGCTTCC TCATATATTT TTAGCCGTTA TAACATATTA GCTGGCTTCA	1020
GTCCTTTTC TAAGCCTTG TAATAGGCCA AATTTCAGG ATTCCCTCTC TGTAACTCTC	1080
TATAAACGTC AGCAGCATCT TCCAAACGAC ACAACTGCAA CAGAAGTTCC CCTTTGGTTT	1140
CTTCAACAGC AAGTTTATCA CAAATCTGCT TTTCATAGGT ACAAAAGATGT TCCAGGGCTT	1200
CTCTATAAAG ACCTGCTTCC CGAAGAACTT GATTCTGATA TAAGAGGAGT TCACTATATT	1260
CATAATCCAC TTTATCAGGA GATGTCTGCT GTGTTTCCT AAACCTCTC AAAATTTTG	1320
CTGCCATTTC ATAGTCTTCT AATAAATGGT AAAGCATAAC CAATCCATGA TGCTCACTCT	1380
GCAGATCCTC TATCATCTTG CGGGTGTTAC TTG	1413

(2) INFORMATION FOR SEQ ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS
 - (A) LENGTH: 3418 base pairs
 - (B) TYPE: cDNA
 - (C) STRANDEDNESS: both
 - (D) TOPOLOGY: Linear

- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: No
- (iv) ANTISENSE: Yes

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CCCCAAACAA TTTATTGCAT ATTTGGTACC TTATGTTGA CAACAAAAAA AAAAAGAAAT	60
TACATTTGTA ACTGCAGGAA AAAGAAGCTG GTCTGTTATT GAAAAAAAAA TCTTGGGCC	120
TTTAAAAATT ACAAAAGCTT GGGCTGCCT GAAACAACTG AGCGAGAAAT ATATTCTTAG	180
AAATGAAGGG CTTCAAGTAT TACAAACCTG TGACACTGTG GAAAAGTTCC CAGAGGTATC	240
TAAACTGCAG CACTTTTCT GCATATCGTG AACAAAGGCCT GCTGAGGTTT TAGATATTAG	300
TCTCTTCATC AGTCATAGAA TGGTAGTCAG GAGTTCTGCT CCTGTAACCT CAAGCCATGG	360
TAGAGTTTC TTTTTCACT CTCAGGTGAA AAATTCATGC TTGCATAATT AGTTGGTGCC	420
ACATCACAGT GCATTTGGTT CTTGCATTAC AGTTTAACA AGTTGGCCA AAACAATGAT	480
AAAGGTTTGC ATTGTTATTT TAGTTCTCA AGTTTAGTT AAATTGAGAT TGTTCCAAC	540
GGTTCCCTCG GTTAAAAACT GTGGTACAAG AACACCAAAC TGATCATGTA CAGTGAATT	600

TGGAAACACA	ACACACGTAC	TGAACACCTT	CTAGGTTCA	CTTAATCCGC	TTGGTAGCTA	660
TGTGTCCCAG	TCTCTACAAC	GTCAAGCATG	TGTTGTAGAC	GGCTCTGTAC	ACAGTGATT	720
ACATTGCATA	CTTCCTATGG	TCAATCACCA	ACCCCGTAAC	AGAACAGGC	AGATGCTAAA	780
GCCCCAACAA	CTCTTTGTGC	TCAGTGAAAG	AATCCAGTGC	TAAAACAGCA	TTTATTTATG	840
CTGCTCTGAGA	TATAGCAAAA	TCTCACAAGA	CAAATTAAA	GTAATATTC	TGCCACACAC	900
CTGCTATGTT	AGCTGTTATA	GCCTCCAGAT	TTTATATAAA	TTAGTTAAAA	ACATGGGAAG	960
GGAAGGTAGG	AATAGGATAC	GGATTTTTT	TTCTTTAAA	CCCCTCAATT	TTAGCAGCTT	1020
TTAATTTTT	AAGAAACTGA	ACCTATATCC	TGTAATGTTA	GATATTAT	ATATAGTTT	1080
CAGCAGGATA	AAAAACGTAA	GACTATTGA	AGGCAAGAAC	ATTTACTCCT	CTCATTCTGT	1140
GTAAGTAAGA	GCAATGCAGC	AGGTGCGTGA	CAAAAATATT	ATACACTAGA	TATGGTCAA	1200
AGTCATTCCA	TTTGCTTGT	TAATGATGTT	CAGATTCAT	TGGCCAGTTC	TTCCGTTCT	1260
GCAGAACTAT	CTCCGTTCAC	TGTGATCTTC	ATATCCTTT	CGTATCCAGG	AGGCATGAAA	1320
GCCAAAGCAT	AAGGGAAAAG	CTTATGACAA	CTTGCTCTGT	AGGCTTCGGC	AGCTTCTTTA	1380
CAGTCTCGTA	GGCTACCATC	ACACAAGGCT	TCCAACACTT	CCATGCAAGT	CTGAAGGTTT	1440
CTGTTGGTGA	GGGATCCATC	AACTGTTGTC	GCCAGCTCTA	TTGCTCGTT	TTGACTAGAA	1500
GAATCTAAAT	AATATACCAT	TTTGGCAGCT	GATAATCTAT	GTGGCAATGA	ATCAGAATTC	1560
CTTTTCAGAA	AGGTTTCATT	AAAATTCTTT	GGATTTGTTG	CTCCAAAAAG	ACGATTTCATT	1620
TCTTGTTTA	ATACTGTTCT	AACTGTTCG	GGTAAGTCTT	TACTTCACA	CACAGAATGA	1680
AAGAGTCGAA	TCATGCACTC	ATGAAGCCAG	GGATGACTAG	AATCAATAGC	AAATGCCGC	1740
TTTACTGATT	GTAGCATCAA	AAGAAACTTT	TCTTCCTAA	AGTAGATCTC	AAAGGCAAAA	1800
AGATGAGTTT	CTATCTTGT	CTTCACCAAG	TTCTTCATG	GTGTTAAAAA	CTTAATAGCT	1860
TCTTCCAATG	GAGTTCAAC	CTTGGCCAGT	TTCTCAGGG	TAAGCTCTTC	TTTGGGGCCT	1920
CCAATTTCTT	CGTCATCATC	ATCCTTTTC	TTTTTCGGAT	TCCGTTGCGG	CTTTTCTTTT	1980
TCGGCATT	TTTTCTCTTC	TTCAATCTGG	GCTTTCTTT	GAGCTCTCT	TTGTTTATTA	2040
CGCAGTTCT	TTAGCTCTT	GTCAGACATG	TTGCTGTAT	CAGCCTCGTG	TTCTTGTTC	2100
TCATCTGTCA	GAGGGTTGTC	ATGAAGCTTC	AAATAGATCT	CAATAGCAAT	TCTCGCTGCT	2160
TTGAAGTAAA	ATGGATGCTG	TCGAAGTACA	TCTTCTAGTT	TTAATAAGTC	CACATATGAT	2220
CTAAGGGTGA	TCTTCCTCAT	ACAGTATGTA	TGAAAGTC	ACTGGTCATC	GGTGATTCT	2280
ATAAAATGTC	TCTCAATTTC	ATGACATTTC	TTAAGTGCTT	CACCAAATT	GTTCATTGCT	2340
TTGTATGCCT	GAGCACACTC	TGTCTGGAAC	CACATACACT	GCATTCATT	CAGGTTCTCT	2400
ACCGCTGAAG	TTCCCTCCCT	CGTAAACTG	GAACACATT	CTTCAGCCTC	TTTAATCAGG	2460
TTGGCTTTA	ACATGTATTT	TGCACACTG	GAATTAATAA	ATCTGTCTGC	TGTGTCCAGG	2520
GCCTGGGCTT	CATCCATCCA	CCTGGCAGCT	TCTTAATAT	TCCCAGCATG	CTTATAGATT	2580



TTAGCTTTA CAAGAAAGAG TTCTATCAAT GTTGGTGTAC TTTCAATTGC AGTATTTATG	2640
TATTCCAGAG CAATGGATGG CTGACCAATT TTATCATAAT GCTGTGCCAA ATAGTACTGG	2700
ACCCAAAGTA ATGTGGTTGG AGGTTCCCTCC TTTCCATCAT CATTGGGTT AAATAGGCAGA	2760
CAAACTTTTA GAGAACGTTTC ATAACCAACT ACTAGTTCTT CTACGATTGC CACCTTCTCT	2820
TTATCTCTGT ATAAAGACCT CAAGGTATTG AAGACAGGTG GACAGCCCTT GCTGAAATTG	2880
ATCCTTAGGA ACCTATCCAA ACACCTCTTA AACTTCTCTC CAGATAAAAAA GTTTAAGGGC	2940
AGCTTTCTTG GCACGAGTCC CCTGGGGTAT TTAGTCCAGG CTTCCCTCATA TATTTTTAGC	3000
CGTTCTAACCA TATTAGCTGG CTTCACTGCT TTTTCTAACG CTTTGTAAATA GGCCCAATT	3060
TCAGGATTCC TCTCTTGTAAC CCCTCTATAA ACGTCAGCAG CATCTTCCAA ACGACACAAAC	3120
TGCAACAGAA GTTCCCCTTT GGTTTCTTCA ACAGCAAGTT TATCACAAAT CTGCTTTCA	3180
TAGGTACAAA GATGTTCCAG GGCTTCTCTA TAAAGACCTG CTTCCCGAAG AACTTGATTC	3240
TGATATAAGA GGAGTTCACT ATATTCTATAA TCCACTTTAT CAGGAGATGT CTGCTGTGTT	3300
TTCCTAAACT CTTCTAAAAT TTTTGTGCC ATTTCATAGT CTTCTAATAA ATGGTAAAGC	3360
ATAACCAATC CATGATGCTC ACTCTGCAGA TCCTCTATCA TCTTGCGGGT GTTACTTG	3418